



PLANTNEBRASKA

Designing with Trees

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Trees are the largest living element in any landscape. They're also the most costly to purchase, the most long-lived (hopefully) and the most "influential" in terms of aesthetic, habitat, sun exposure and placement of other plant material. Here are a few tips to guide you:

- Take time to plan ahead. Don't let a 30-second decision become a long-term problem.
- Pick trees to match site constraints and limitations—not the other way around.
- Trees function in several ways and can provide many benefits that should be considered when placing them in the landscape. They provide shade, block cold winds, screen bad views, reduce stormwater runoff, filter dust, reduce utility costs, buffer noise, attract/sustain wildlife, help create outdoor space, help kids play, relieve stress, create better views, bring nature to the city, feed humans, lengthen the life of pavement, calm traffic, reduce heat island effect, capture CO2 and improve the aesthetics of a community or neighborhood.
- Mass and separate from turf grass. Try not to scatter trees individually, but instead plant trees in groups and in association with other plants such as shrubs, perennials and groundcovers. Massing trees and other plants together helps create islands with many mutual benefits including reduced conflicts with lawn care (mowing, trimming, irrigation, etc.), greater resistance to weather events, better soil health, better drought-tolerance, fewer disease and insect problems and better aesthetics.
- Work to maximize shade benefits. Trees placed on the south and west sides of homes and other structures can greatly reduce indoor temperatures and energy consumption. Trees along streets help shade pavement, reducing the local heat-island effect. Deciduous trees provide shade in summer while allowing solar gain in the winter after their leaves have fallen.
- Plant a diversity but don't plant one of everything. It's important to strive for broad species diversity across a large property, neighborhood or community. Planting in groups of "threes and fives" is a good rule of thumb.
- For street trees, emphasize taller-growing, canopy-forming species that reduce potential vehicle and pedestrian conflicts. Plan for tree canopies to be at least 8 feet above sidewalks and 15 feet above streets.
- Windbreaks should be more diverse and should include deciduous species in addition to evergreens. Several oak and viburnum species hold their leaves well into the winter, making them a good choice for winter wind protection.
- Beware of power lines and potential utility conflicts and work with your neighbor to help avoid social conflicts.



More plant and tree resources available at plantnebraska.org.